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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	09/818,138	03/27/2001	Atsuhiko Yoneda	8373.234US01	2609	
	23552 7.	590 11/14/2002				
	MERCHANT & GOULD PC P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903			EXAMINER		
				CUEVAS, PEDRO J		
				ART UNIT	PAPER NUMBER	
				2834		
				DATE MAILED: 11/14/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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./3		Applicatio	n No.	Applicant(s)						
•	Office Action Summary		8	YONEDA ET AL.						
				Art Unit						
			uevas	2834						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status										
1)	Responsive to communication(s) filed o	n 09 September :	2002 .							
2a)⊠	_	non-final.								
3)	Since this application is in condition for		rosecution as to the merits	is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. sposition of Claims									
J	Claim(s) $1-6$ is/are pending in the applic	eation								
	4a) Of the above claim(s) is/are withdrawn from consideration.									
5) Claim(s) is/are allowed.										
6)⊠ Claim(s) <u>1-6</u> is/are rejected.										
7) Claim(s) is/are objected to.										
	Claim(s) are subject to restriction and/or election requirement.									
Application Papers										
9) The specification is objected to by the Examiner.										
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.										
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.										
	If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.										
Priority u	nder 35 U.S.C. §§ 119 and 120									
13)	Acknowledgment is made of a claim for	foreign priority un	der 35 U.S.C. § 119(a	a)-(d) or (f).						
a)[a) ☐ All b) ☐ Some * c) ☐ None of:									
1. Certified copies of the priority documents have been received.										
2. Certified copies of the priority documents have been received in Application No										
* s	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional appl										
a) \square The translation of the foreign language provisional application has been received.										
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.										
Attachment(s)										
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449) Paper			y (PTO-413) Paper No(s) Patent Application (PTO-152)	. •					
U.S. Patent and T		Office Action Summe		Part of Paner N	io 8					

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,351,050 to Coles in view of U.S. Patent No. 6,049,153 to Nishiyama et al.

Coles disclose the construction of an electrical power assisted steering system including an electric motor (50) comprising:

an annular outer stator (400) having circumferentially arranged stator windings (column 4, lines 26-27) of nine or a multiple of nine salient poles (401) radially arranged at an equal pitch, each of said salient poles having respective one of said stator windings wound therearound, three or a multiple of three poles of said stator windings being connected in series to provide three phases (Coles, Figure 3), each of said three phases comprises those three or a multiple of three poles of said stator windings which are not positioned adjacent to each other (Coles, Windings A, B, and C of Figure 2);

the stator windings being connected such that they can be driven by electric power of three phases.

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However, it fails to disclose an inner rotor positioned within the outer stator and consisting of permanent magnets of eight poles.

Nishiyama et al. teach the construction of a motor having:

an inner rotor (13) positioned within an outer stator (2) and consisting of permanent magnets(14) of eight poles magnetized radially so that N and S poles are alternately arranged circumferentially, wherein each of said three phases comprises those three or a multiple of three poles of said stator windings which are positioned adjacent to each other, connected in series; and

having a motor shaft (4) on which said permanent magnets of eight poles are circumferentially arranged, said motor shaft having solid form;

for the purpose of producing an inductance difference between the q-axis inductance and the d-axis inductance, so that it is possible to rotate and drive the rotor by making use of the reluctance torque.

It would have been obvious to one skilled in the art at the time the invention was made to use the motor disclosed by Nishiyama et al. on the electrical power assisted steering system disclosed by Coles for the purpose of producing an inductance difference between the q-axis inductance and the d-axis inductance, so that it is possible to rotate and drive the rotor by making use of the reluctance torque.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas November 7, 2002

NESTON RAMINES

SUPPLIED OF PARENT FVALUER

AECHINOLOGY CENTER SEGO